



In the United States Patent & Trademark Office

DAC ZKW

In re Application of
Lee, et al.

Application No. 09/730,177

Filed: December 5, 2000

Our Docket No. SP-405

Petition's Attorney: Mr. Edward J. Tannouse

BEST AVAILABLE COPY

78 Cypress Street
Millburn, New Jersey
N.J. 07041

25 January, 2006

Commission of Patents,
P.O. Box 1450
Alexandria, VA 22313-1450

Sir,

Petition for Revival of a Patent Application No. 09/730,177 unavoidably abandoned

This is a response to a telephone discussion with Mr. Edward J. Tannouse, Petitions Attorney, Office of Petitions, relating to the above pending Patent Application, unavoidably abandoned, and thanks the Petition Attorney, for courtesies extended during the telephone interview.

The undersigned duly submits a separate statement that the office communication with respect to the pending Patent Application No. 09/730,177 was not received by the undersigned. A copy of the file jackets contents and records are attached, clearly indicating that the U.S.P.T.O. office communication was not received.

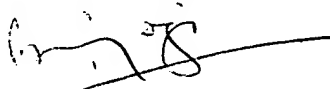
It is submitted and as discussed with Attorney Edward J. Tannouse, the Petitioner is a sole practitioner and does not maintain any docket records. However, as discussed with Attorney

Edward J. Tannouse a copy of the records of the file jacket will clearly disclose that the communication from the Patent office was not received, by me, and had it been received would have been entered in the file jacket.

As required, a formal Petition for Revival is attached along with a Separate Statement that the office communication was not received.

It is, therefore, respectfully submitted that this Pending Patent Application No. 09/730,177 be revived.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'B. K. Niyogi', with a long horizontal line extending to the right.

B. K. Niyogi
Reg No. 27071
Tel: 973 762 3128
Fax: 973 762 3129

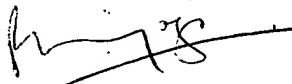
STATEMENT

Statement in support of U.S. Patent Application No. 09/730,177 Fibel December 05,
2000.

The undersigned, as Agent for the Applicant, duly submits that the U.S. Patent Office communication was not receive and all the records of the file jacket which is attached herewith would, clearly indicate that the office communication was not received. The attached copy of the file wrapper where the non-received office communication would have been lodged had it been received.

Accordingly, it is solicited that this Patent Application be revived.

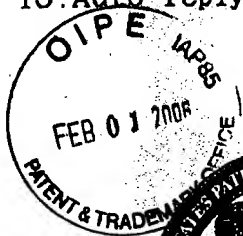
Respectfully submitted,



Bidyut K. Niyogi

Regd No. 27071
Tel: 973 762 3128

Dated: January 23, 2006



Auto-Reply Facsimile Transmission

TO: Fax Sender at 973 762 3127

Fax Information

Date Received:

Total Pages:

12/1/2004 6:40:49 PM [Eastern Standard Time]

6 (including cover page)

ADVISORY: This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

Received
Cover
Page

=====>

Dec 01 04 06:43p Bidyut Niyogi 973-762-3127 p.1

Transnational Enterprises, Inc. International Patent Law Services			
Bidyut K. Niyogi President 973-762-3128	Sanjay Desai VP, Marketing 973-762-8788	Anita Paris VP, Public Relations 973-762-8788	Luisa Ramirez Legal Assistant 973-762-3128
78 CYPRESS ST MILLBURN, NEW JERSEY 07041, USA FAX: 973-762-3127			

TO: United States Patent & Trademark Office Date: 12-01-2004

Attn: _____

Fax: 903-872-9306 Total Pages: 6

Ref: Appl. No. 09/730,177 (Petition for Revival)

Message:

Attached please find our Petition for Revival of
an Application for Patent Abandoned Unavoidably

Thank you,

Bidyut K. Niyogi

NOTICE OF CONFIDENTIALITY

The documents accompanying this facsimile contain confidential material. The information is only intended for the person(s) named above. If by error you have received this facsimile please contact the above phone number and return the original documents via Airmail. Any copying, distribution or disclosure of this material is prohibited.



Transnational Enterprises, Inc.

International Patent Law Services

Bidyut K. Niyogi
President
973-762-3128

Sanjay Desai
VP, Marketing
973-762-8788

Anita Paris
VP, Public Relations
973-762-8788

Luisa Ramirez
Legal Assistant
973-762-3128

78 CYPRESS ST MILLBURN, NEW JERSEY 07041, USA
FAX- 973-762-3127

TO: United States Patent & Trademark Office Date: 12-01-2004

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Ref: Appl. No. 09/730,177 (Petition for Revival)

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Thank you,

Bidyut K. Niyogi

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**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNAVOIDABLY UNDER 37 CFR 1.137(a)**

Docket Number (Optional)

SD-405

First Named Inventor: EHWA Diamonds Ind. Co., Ltd.

Art Unit: 3723

Application Number: 09/730,177

Examiner: Alvin J. Grant

Filed: December 5, 2000

Title: Saw Blade For Cutting Steel-Reinforced Structure

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NOTE: If information or assistance is needed in completing this form, please contact
Petitions Information at (703) 305-9282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.

NOTE: A grantable petition requires the following items:

- (1) Petition fee.
- (2) Reply and/or issue fee.
- (3) Terminal disclaimer with disclaimer fee required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
- (4) Adequate showing of the cause of unavoidable delay.

1. Petition fee

☒ Small entity - fee \$ 55.00 (37 CFR 1.17(l)). Applicant claims small entity status.
See 37 CFR 1.27.

☐ Other than small entity - fee \$ _____ (37 CFR 1.17(l)).

2. Reply and/or fee

A The reply and/or fee to the above-noted Office action in the form of _____ (identify the type of reply):

- ☐ has been filed previously on _____
- ☐ is enclosed herewith.

B The issue fee of \$ _____

- ☐ has been filed previously on _____
- ☐ is enclosed herewith.

[Page 1 of 3]

This collection of information is required by 37 CFR 1.137(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNAVOIDABLY UNDER 37 CFR 1.137(a)

3. Terminal disclaimer with disclaimer fee

- ☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. An adequate showing of the cause of the delay, and that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition under 37 CFR 1.137(a) was unavoidable, is enclosed.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

<p>_____ Signature</p> <p><u>Bidyut K. Niyogi</u> Typed or printed name</p> <p><u>78 Cypress St.</u> Address</p> <p><u>Millburn, NJ 07066</u> Address</p>	<p><u>12-01-2004</u> Date</p> <p><u>27071</u> Registration Number, if applicable</p> <p><u>973-762-3128</u> Telephone Number</p>
---	--

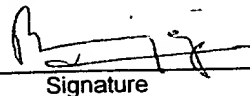
- Enclosure ☒ Fee Payment
- ☐ Reply
- ☐ Terminal Disclaimer Form
- ☐ Additional sheets containing statements establishing unavoidable delay
- ☐ _____

CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is being:

- ☒ deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to **Mail Stop Petition**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
- ☒ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) 872-9306.

12-01-2004
Date



Signature

Bidyut K. Niyogi
Typed or printed name of person signing certificate

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED
UNAVOIDABLY UNDER 37 CFR 1.137(a)**

NOTE: The following showing of the cause of unavoidable delay must be signed by all applicants or by any other party who is presenting statements concerning the cause of delay.



Signature

Bidyut K. Niyogi

Typed or printed name

12-01-2004

Date

27071

Registration Number, if applicable

(In the space provided below, please explain in detail the reasons for the delay in filing a proper reply.)

Item 4 is attached on a separate sheet of paper

(Please attach additional sheets if additional space is needed.)

The Patent Application No. 09/730,177 lapsed due to our office never receiving any notification of any office action from the United States Patent Office, advising us that the above-mentioned Application could and would lapse at a specific date. Our office was informed of the Patent Application lapsing by a phone call from the Examiner Mr. Alvin J. Grant on November 23, 2004. We would like to thank the Examiner Mr. Alvin J. Grant for his courtesy and assistance in informing us of this unavoidable lapse.

The lapsing of this Patent Application was unavoidable since a date of expiration was never documented and forwarded to our office. A copy of our last letter sent to the United States Commissioner of Patents, copy attached, dated February 20, 2004, requested information of the status of the Patent Application, and demonstrates our interest in maintaining this Patent Application alive.




1143

TRANSNATIONAL ENTERPRISES, INC

78 CYPRESS STREET
MILLBURN, NJ 07041

55-750/0312
174

PAY TO THE ORDER OF United States Patent & Trademark Office DATE 12-01-2004 \$ 55.00 =

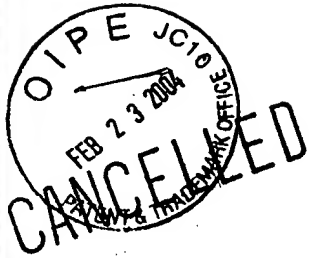
Fifty five and 00/100 * DOLLARS 

 **PNCBANK**
PNC Bank, N.A. 060
New Jersey

FOR S6-405 Appl. 09/730,177

⑈001143⑈ ⑆031207607⑆ 80692570⑈





155-3723

Transnational Enterprises, Inc.
78 Cypress St.
Millburn, NJ 07041
Tel. 973-762-3128
Fax. 973-762-3127

February 20, 2004

Commissioner of Patents
PO Box 1450
Alexandria, VA 22313-1450

Sirs:

Applicant: EHWA Diamonds Ind. Co., Ltd.
Appl No. 09/730,177
Filed: December 5, 2000
Title: Saw Blade For Cutting Steel-Reinforced Structure


Grp./A.U.: 3723
Examiner Alvin J. Grant

Docket No. SO-405

With reference to the above Patent Application our clients are anxious to know of its present status, and we will appreciate an early response.

Thank you for your cooperation.

Respectively submitted,


Bidyut K. Niyogi
Reg No. 27071

*Amendment received May 15, 2002 case
with the examiner as of
March 17, 2004*

RECEIVED
FEB 27 2004
TECHNOLOGY CENTER R3700



Transnational Enterprises, Inc.

International Patent Law Services

Bidyut K. Niyogi
President
973-762-3128

Sanjay Desai
VP, Marketing
973-762-3128

Anita Paris
VP, Public Relations
973-762-3128

78 Cypress Street, Millburn, NJ- 07041, USA 07041
Fax: 973-978-3127

June 24, 2004

Mr. Eun J. Sohn
1F., Yeoksam P-Bldg
824-17, Yeoksam-Dong, Kangnam-Ku
Seoul 135-080, Korea

Dear Mr. Sohn:

Reference: US Patent Application No. 09/730,177
Your reference: WA-267/US
Our reference: SO-405
Invoice NJ133

Wire Transfer Invoice NJ124

Thank you for your payments on Invoice NJ124 and Invoice NJ133, which were wire transferred to our Colonial Bank Account on June 8, 2004. Attached please find Invoice NJ154, for wire transfer fees and bank fees for the above transaction.

We would like to remind you that we have officially closed our Bank Account with Colonial Bank, due to our move from Florida to New Jersey. Our New Bank Account is under PNC Bank located in Millburn, NJ 07041, USA, under account No. 031207607 and rotary number of 8023325701. The PNC Bank Account should be used for wire transfers from now on, as we had stated previously in our letter dated June 8, 2004.

We appreciate your prompt payment and thank you for your cooperation.

Yours sincerely,

Luisa Ramirez
Legal Assistant



EUN JIN SOHN PATENT & LAW OFFICE

PATENTS, UTILITY MODELS, DESIGNS AND TRADEMARKS

1F., Yeoksam P-Bldg., 824-17, Yeoksam-Dong, Kangnam-Ku, Seoul 135-080, Korea
(P.O. BOX 587 KANGNAM SEOUL 135-605 KOREA)

June 12, 2004

VIA FACSIMILE & AIRMAIL

Transnational Enterprises, Inc.
78 Cypress Street
Millburn, New Jersey 07041
U.S.A.

CONFIRMATION

Re: Remittance

Dear Sirs:


This is inform you that the payment in the amount USD149.00 for the following debit notes was made bank transfer to your account on June 8, 2004.

DATE	DEBIT NOTE NO.	AMOUNT(USD)
March 3, 2004	NJ124	80.00
March 29, 2004	NJ133	69.00
TOTAL		149.00

We are enclosing copies of an order instructing our bankers to cable remittance.

If you have any questions relative to this matter, please do not hesitate to contact us and acknowledge receipt of our remittance.

Very truly yours,
EUN JIN SOHN PATENT & LAW OFFICE


Eun-Jin SOHN
Patent Attorney

지점명 KANGNAM STATION BR FEB 01 2006

TEL: (02)3481-4008

일자 JUN 18TH 2004

조운경

결 제 은 행 : KEB USA INTERNATIONAL CORP.
(REIMBURSING BANK) (23788-0797)
:20 거 래 번 호 : 057-OTT-419682
(SENDER'S REFERENCE)
:32A 일 자 및 송 금 액 : 040608/USD/*****149.00
(VAL / CUR / AMT)
:50A 보 내 시 는 분 : SOHN, EUN JIN
(ORDERING CUSTOMER)

:57D 수취인 거래은행 : COLONIAL BANK
(ACCOUNT WITH BANK) 1801 WEST HIBISCUS BLVD. MELBOURNE,
FLORIDA 32901 USA

:59A 받 으 실 분 : /0000090108640
(BENEFICIARY CUSTOMER) TRANSNATIONAL ENTERPRISES, INC.
1900 SOUTH HARBOR, CITY BLVD., 1900 BUILDING, ROOM 301 MELBOURNE, FLORIDA
32901 USA

:70 송 금 내 역 :
(REMITTANCE INFORMATION)
:71A 결제은행수수료부담자 : SHA
(DETAILS OF CHARGES)
:72 기 타 지 시 사 항 :
(SENDER TO RECEIVER
INFORMATION)

< 임의선정건 >

고객번호: 057-002417-5, 지정항목: 00, 보고서: 2-629-303, 원거래번호: 0190TT451134

전화한 통으로 송금 OK
전화로 OK 해외송금 서비스
(02)3709-8585(바로바로)

환율우대 수수료할인...
인터넷 해외송금 서비스
인터넷 송금클럽 서비스
www.FXkeb.com

인터넷 외환매매 서비스
현물환/선물환 거래
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www.FXkeb.com

* 동일한 내용으로 송금을 원하시는 경우 이 사본을 제시하시면 보다 신속히 처리됩니다.



Transnational Enterprises, Inc.

International Patent Law Services

Bidyut K. Niyogi
President
973-762-3128

Sanjay Desai
VP, Marketing
973-762-8788

Anita Paris
VP, Public Relations
973-762-8788

78 CYPRESS ST MILLBURN, NEW JERSEY 07041, USA

March 29, 2004

Mr. Eun J. Sohn
1F., Yeoksam P-Bldg
824-17, Yeoksam-Dong, Kangnam-Ku
Seoul 135-080, Korea

Dear Mr. Sohn:

Reference: US Patent Application No. 09/730,177
Your reference: WA-267/US
Our reference: SO-405

We enclose a copy of a letter from the US Patent Office, with a note from the Examiner, that the subject-case as of March 17, 2004 is still pending.

We enclose an Invoice No. NJ 133 for our services.

We thank you and do appreciate your cooperation.

Yours truly,

Luisa F. Ramirez
Legal Assistant



Transnational Enterprises, Inc.
78 Cypress St.
Millburn, NJ 07041
Tel. 973-762-3128
Fax. 973-762-3127

February 20, 2004

Commissioner of Patents
PO Box 1450
Alexandria, VA 22313-1450

Sirs:

Applicant: EHWA Diamonds Ind. Co., Ltd.
Appl No. 09/730,177
Filed: December 5, 2000
Title: Saw Blade For Cutting Steel-Reinforced Structure

Grp./A.U.: 3723
Examiner Alvin J. Grant

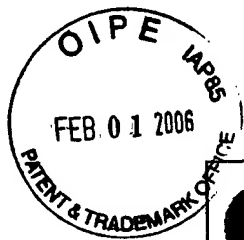
Docket No. SO-405

With reference to the above Patent Application our clients are anxious to know of its present status, and we will appreciate an early response.

Thank you for your cooperation.

Respectively submitted,

Bidyut K. Niyogi
Reg No. 27071



Transnational Enterprises, Inc.

International Patent Law Services

Bidyut K. Niyogi
President
973-762-3128

Sanjay Desai
VP, Marketing
973-762-8788

Anita Paris
VP, Public Relations
973-762-8788

78 CYPRESS ST MILLBURN, NEW JERSEY 07041, USA

February 20, 2004

Mr. Eun J. Sohn
1F., Yeoksam P-Bldg
824-17, Yeoksam-Dong, Kangnam-Ku
Seoul 135-080, Korea

COPY

Dear Mr. Sohn:

Reference: US Patent Application No. 09/730,177
Your reference: WA-267/US
Our reference: SO-405

Thank you for your letter dated February 19, 2004, regarding the above Patent Application. We have reviewed the subject case and attached is a copy of our telecom with the examiner on August 6, 2002, and our present action on the matter.

Enclosed is an Invoice for our services.

Yours sincerely,

B.K.N.

Bidyut K. Niyogi

**EUN JIN SOHN PATENT & LAW OFFICE****PATENTS, UTILITY MODELS, DESIGNS AND TRADEMARKS**

1F., Yeoksam P-Bldg., 824-17, Yeoksam-Dong, Kangnam-Ku, Seoul 135-080, Korea
(P.O. BOX 587 KANGNAM SEOUL 135-605 KOREA)

February 19, 2004

VIA FACSIMILE(973-762-3128) & AIRMAIL

Bidyut K. Niyogi, Esq.
Transnational Enterprises, Inc.
78 Cypress St. Millburn
New Jersey 07041
U.S.A.

Re: US Patent Application No. 09/730,177
in the name of EHWA DIAMOND IND. CO., LTD.
Your Ref.: SO-405
Our Ref.: WA-267/US

Dear Sirs;

Thank you for your letter of April 17, 2002 enclosing copies of the response to the Office Action from the USPTO dated February 13, 2002 in connection with the above-noted application,

However, since then, we have not heard from you about any developments for this matter.

Accordingly, please inform us of the present status or any development of the above-noted application, immediately.

Thank you for your cooperation in this matter.

Very truly yours,
EUN JIN SOHN PATENT & LAW OFFICE


Eun-Jin SOHN
Patent Attorney



Transnational Enterprises Inc.

International Patent Law Services

78 Cypress Street, Millburn, New Jersey 07041, USA

Fax: 973-762-3127

Bidyut K. Niyogi
973-762-3128

Sanjay Desai
973-762-3128

Anita Paris
973-762-8788

To: Mr. Eun Jin Sohn

Date: 16th Oct. '04

Fax # 011-82-2-554-2669

Total Pages: 2

Re: Return of Granted Patent Files

Message:

We have files for granted
or abandoned files of your patent
cases which we would like to
return to you. Please let us know
at your earliest as to what you would
like us to do. I will be away from
early Nov. '04 for several weeks. Thank
you for your co-operation
Regards.

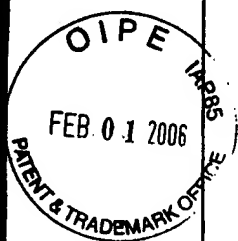
Thank You,

Bidyut K. Niyogi

Bidyut Niyogi

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Transnational Enterprises, Inc.

International Patent Law Services

Bidyut K. Niyogi
President

~~321-729-9615~~

973-762-3128

Sanjay Desai
VP, Marketing

~~321-729-9615~~

973-762-3128

Anita Paris
VP, Public Relations

~~321-729-9615~~

973-762-8788

1900 S. Harbor City Blvd., Suite #301, Melbourne, Florida, 32901 USA

Fax: 321-729-9635

June 19, 2003

Reminder: Oct. 16, 2004

VIA FAX

Mr. Eun Jin Sohn
Eun Jin Sohn Patent & Law Office
1F., Yeoksam P-Bldg.
824-17 Yeoksam-Dong, Kangnam-Ku
Seoul 135-080, Korea

Dear Mr. Sohn,

Re: Granted US Files

As of June 30, 2003 this office in Melbourne, Florida will be closing. All current files will be moved to Transnational's new location of:

78 Cypress St.
Millburn, New Jersey 07041 USA
Telephone: (973) 762-3128
Fax: (973) 762-3127

Please instruct us as to how you would like us to ship your **Granted US Files** to you. Do you have an account with UPS or FED EX? If so, we could ship them using one of these agents with your account number. We await your instructions. Please fax to us at ~~(321) 729-9635~~.

(973) - 762-3127

Yours sincerely,

Bidyut K. Niyogi
Transnational Enterprises, Inc.

Enclosures



UNITED STATES PATENT AND TRADEMARK OFFICE



Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

TRANSNATIONAL ENTERPRISES INC
ATTEN: B.K. NIYGGI
78 CYPRESS STREET
MILLBURN, NJ 07041

COPY MAILED

JAN 06 2006

OFFICE OF PETITIONS

In re Application of
Lee, et al.
Application No. 09/730,177
Filed: December 5, 2000
Attorney Docket No. SO-405

ON PETITION
11137-6

This is a decision on the petition under 37 CFR 1.181, filed January 4, 2005, to withdraw the holding of abandonment. The petition was recently forwarded to this office for consideration.

The petition is **dismissed**.

This application became abandoned for failure to timely reply to the final Office action mailed May 21, 2004. Accordingly, this application became abandoned on August 22, 2004. A Notice of Abandonment was mailed on December 1, 2004.

Petitioner contends the Office action was never received. The showing required to establish non-receipt of an Office communication must include a statement from the practitioner stating that the Office communication was not received by the practitioner and attesting to the fact that a search of the file jacket and docket records indicates that the Office communication was not received. A copy of the docket record where the non-received Office communication would have been entered had it been received and docketed must be attached to and referenced in practitioner's statement. See *Withdrawing the Holding of Abandonment When Office Actions Are Not Received*; Notice 1156 Off. Gaz. Pat. Office 53 (November 16, 1993) and MPEP 711.03(c).

The required copy of the docket record where the non-received Office communication would have been entered had it been received and docketed and referenced in practitioner's statement has not been submitted. As such, the petition must be dismissed.

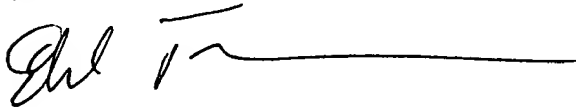
Further correspondence with respect to this matter should be addressed as follows:

By mail: Mail Stop Petition
 Commissioner for Patents
 Box 1450
 Alexandria, VA 22313

By FAX: (571) 273-8300
 Attn: Office of Petitions

By hand: Customer Service Window
 Randolph Building
 401 Dulany Street
 Alexandria, VA 22314

Telephone inquiries concerning this matter may be directed to the undersigned at
(571) 272-3228.



Edward J. Tannouse
Petitions Attorney
Office of Petitions
Office of the Deputy Commissioner
for Patent Examination Policy



Transnational Enterprises
78 Cypress St.
Millburn, NJ 07041
Tel. 973-762-3128
Fax. 973-762-3127

January 6, 2005

Commissioner of Patent
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Technology Center 3700

Sirs:

Applicant: EHWA Diamonds Ind. Co., Ltd.
Appl No.: 09/730,177
Filed: Decemeber 5, 2000
Title: Saw Blade for Cutting Steel-Reinforced Structure

Grp/A.U.: 3723
Examiner: Alvin J. Grant

Docket No. SO-405

This is a petition to withdraw the holding of abandonment as appropriate as existed in Delgar, Inc. et al vs. Schuyler 172 USPQ 513 (D.D.C. 1971).

An office action or notice requiring replies was mailed by your offices but never received by the Registered Practitioners (Transnational Enterprises- Bidyut K. Niyogi Reg. 27071). Since it is the office the practice of the office to ensure the mailing of all papers on the date indicated thereon and there is a strong presumption that the papers duly addressed and indicated was mailed timely but not delivered to the address and returned to the USPTO per the Examiner's verbal statement.

- A. Petition to withdraw holding of abandonment under 37 CFR 1.181.
- B. This is a statement of the practitioner stating that the practitioner did not receive the office action. It is clearly understood from the Examiner that the office Action was returned to the Office by the Postal Services, since no change of address form was in error not filed. A change of address form has been filed recently.

It is respectfully requested that this Application be revived.

Yours respectfully,

Bidyut K. Niyogi
Reg. 27071

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Jan 06 05 11:07p Bidget Nigog 973-762-3127 p.1

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Reg. No. 27071

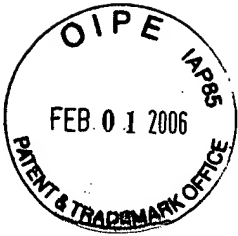
or in requested that the holding of
examination be withdrawn with respect
to the above Application. With the
afford with 37 CFR 1.181

Message:
Ref: App. No. 09/1730, 177 filed Dec. 05, 2000
Fax: 703-872-9306
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TO: US Patent and Trademark Office
Date: 01/06/05

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Sanjay Desai
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Legal Assistant
Leticia Ramirez
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International Patent Law Services
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Transnational Enterprises
78 Cypress St.
Millburn, NJ 07041
Tel. 973-762-3128
Fax. 973-762-3127

January 6, 2005

Commissioner of Patent
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Technology Center 3700

Sirs:

Applicant: EHWA Diamonds Ind. Co., Ltd.
Appl No.: 09/730,177
Filed: Decemeber 5, 2000
Title: Saw Blade for Cutting Steel-Reinforced Structure

Grp/A.U.: 3723
Examiner: Alvin J. Grant

Docket No. SO-405


This is a petition to withdraw the holding of abandonment as appropriate as existed in Delgar, Inc. et al vs. Schuyler 172 USPQ 513 (D.D.C. 1971).

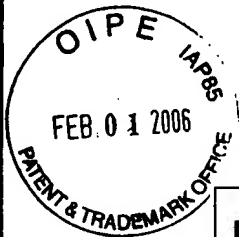
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- A. Petition to withdraw holding of abandonment under 37 CFR 1.181.
- B. This is a statement of the practitioner stating that the practitioner did not receive the office action. It is clearly understood from the Examiner that the office Action was returned to the Office by the Postal Services, since no change of address form was in error not filed. A change of address form has been filed recently.

It is respectfully requested that this Application be revived.

Yours respectfully,


Bidyut K. Niyogi
Reg. 27071



Transnational Enterprises, Inc.

International Patent Law Services

Bidyut K. Niyogi
President
973-762-3128

Sanjay Desai
VP, Marketing
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Anita Paris
VP, Public Relations
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Luisa Ramirez
Legal Assistant
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FAX- 973-762-3127

TO: U.S. Patent and Trademark Date: 01/06/05
Attn: Technology Center ^{Office} - 3700
Fax: 703-872-9306 Total Pages: 2
Ref: App. No. 09/730,177 Filed Dec. 05, 2000
App Unit - 3723

Message:

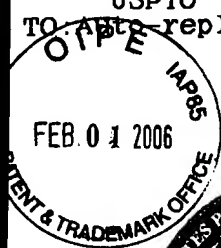
It is requested that the holding of
abandonment be withdrawn with respect
to the above Application Petition
attached under 37 CFR 1.181

Respectfully submitted.
Thank you,

 Reg. No 27071.
Bidyut K. Niyogi

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Jan 04 05 07:58p Bidyal K. Niyogi 973-762-3127 p. 1

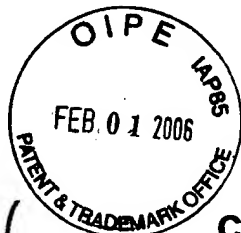
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Bidyal K. Niyogi

Application
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App: Examiner - ALVIN J. GRANT

Message:
Art Unit - 3123
Ref: App No 09/139,177-Filed Dec. 05, 2000.
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Total Pages: 2
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01/04/05

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Luis Ramirez
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CHANGE OF CORRESPONDENCE ADDRESS Application

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450.

Application Number	09/730,177
Filing Date	DEC. 05, 2000
First Named Inventor	EHWA DIAMOND et. al
Art Unit	3723
Examiner Name	ALVIN J. GRANT
Attorney Docket Number	50-405

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Address	78 CYPRESS STREET				
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I am the:

- ☐ Applicant/Inventor
- ☐ Assignee of record of the entire interest.
Statement under 37 CFR 3.7(b) is enclosed. (Form PTO/SB/96).
- ☒ Attorney or Agent of record.
- ☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number _____

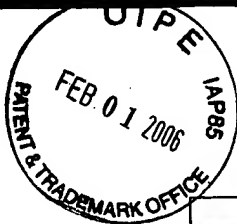
Typed or Printed Name	BIDYUT K. NIYOGI Regd. No 27071	
Signature		
Date	01/04/05	Telephone 973-762-3128

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Legal Assistant
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TO: U.S. Patent & Trademark Office Date: 01/04/05
Attn: Technology Center
Fax: 703-872-9306 Total Pages: 2
Ref: App. No. 09/730,177 - Filed Dec. 05, 2000,
Art Unit - 3723

Message:

Attn: Examiner - ALVIN J. GRANT

It is requested that change of
Address be recorded for this Patent
Application.

Thank you,


Bidyut K. Niyogi

Reg. No 27071.

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Transnational Enterprises
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Tel. 973-762-3128
Fax. 973-762-3127

January 6, 2005

Commissioner of Patent
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Technology Center 3700

Sirs:

Applicant: EHWA Diamonds Ind. Co., Ltd.
Appl No.: 09/730,177
Filed: Decemeber 5, 2000
Title: Saw Blade for Cutting Steel-Reinforced Structure

Grp/A.U.: 3723
Examiner: Alvin J. Grant

Docket No. SO-405

This is a petition to withdraw the holding of abandonment as appropriate as existed in Delgar, Inc. et al vs. Schuyler 172 USPQ 513 (D.D.C. 1971).

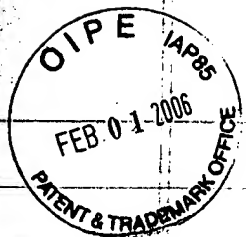
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- A. Petition to withdraw holding of abandonment under 37 CRF 1.181.
- B. This is a statement of the practitioner stating that the practitioner did not receive the office action. It is clearly understood from the Examiner that the office Action was returned to the Office by the Postal Services, since no change of address form was in error not filed. A change of address form has been filed recently.

It is respectfully requested that this Application be revived.

Yours respectfully,

Bidyut K. Niyogi
Reg. 27071



This is ~~in which~~ a petition to withdraw the holding of abandonment ^{Since it is} ~~is~~ appropriate ^{as} ~~is the situation which~~ existed in Delgar, Inc. et al ~~vs~~ Schuyler 172 USPQ 513 (D.D.C. 1971).

An Office action or notice requiring ^{was} ~~your~~ reply ~~is~~ mailed by ~~the~~ ^{your} Office but never received by the ~~Applicant~~ ~~as~~ Registered Practitioner (Transnational Ent. --- B.K.N.)

Since ~~it~~ ^{it} is the Office practice to ensure the mailing

of all papers on the date indicated thereon and there is a strong presumption that the

papers duly addressed and indicated ^{was} ~~and~~ mailed ^{but not}

~~are~~ timely delivered to the addressee & returned to the D.S.P.T.O. per the Examiner's ^{statement} The reason for L. it is H. 0 11

If abandonment are

(A) Petition ~~to~~ to withdraw holding of abandonment under 37 CFR 1.181.

This is a
(B) ~~to~~ statement from the practitioner stating

that the office action was not received by

the practitioner ~~and attesting to the fact~~

~~that a search of the file jacket and~~

~~docket records indicated that the office~~

~~Action was not received. It is clearly~~

from the Examiner
understood that the office Action was

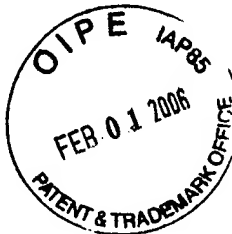
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Service, since no change of address

form was in error not filed. A change



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TRANSNATIONAL ENTERPRISES, INC.
95 BULLDOG BLVD.
SUITE 207
MELBOURNE, FL 32901

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OFFICE OF PETITIONS

In re Application of	:	
Lee, et al.	:	
Application No. 09/730,177	:	ON PETITION
Filed: December 5, 2000	:	
Attorney Docket No.. SO-405	:	

This is a decision on the petition under 37 C.F.R. § 1.137(a), filed December 1, 2004, by facsimile, to revive the above-identified application.

The petition is **dismissed**.

Any request for reconsideration of this decision must be submitted within TWO (2) MONTHS from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. The reconsideration request should include a cover letter entitled "Renewed Petition under 37 CFR 1.137(a)."

This application became abandoned for failure to timely reply to the final Office action mailed May 21, 2004. Accordingly, this application became abandoned on August 22, 2004. A Notice of Abandonment was mailed on December 1, 2004.

A grantable petition to revive an abandoned application under 37 CFR 1.137(a) must be accompanied by:

- (1) The required reply, unless previously filed. In a nonprovisional application abandoned for failure to prosecute, the required reply may be met by the filing of a continuing application. In an application or patent, abandoned or lapsed for failure to pay the issue fee or any portion thereof, the required reply must be the payment of the issue fee or any outstanding balance thereof;

- (2) The petition fee as set forth in § 1.17(1);
- (3) A showing to the satisfaction of the Commissioner that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to this paragraph was unavoidable; and
- (4) Any terminal disclaimer (and fee as set forth in § 1.20(d)) required pursuant to paragraph (c) of this section.

This petition lacks item (2) above.

The required \$55.00 petition fee has not been submitted. As such, the petition may not be reviewed on the merits at this time and must be dismissed. Please note, effective December 8, 2004, this fee has increased to \$250.00.

Please note, if petitioner wishes to assert non-receipt of an Office action, petitioner should submit a petition under 37 CFR 1.181 to withdraw the holding of abandonment. No fee is required with a petition under 37 CFR 1.181. A petition under 37 CFR 1.181 to withdraw the holding of abandonment should be submitted to Technology Center 3700 and not the Office of Petitions.

Furthermore, please note, the showing required to establish non-receipt of an Office communication must include a statement from the practitioner stating that the Office communication was not received by the practitioner and attesting to the fact that a search of the file jacket and docket records indicates that the Office communication was not received. A copy of the docket record where the non-received Office communication would have been entered had it been received and docketed must be attached to and referenced in practitioner's statement. See Withdrawing the Holding of Abandonment When Office Actions Are Not Received; Notice 1156 Off. Gaz. Pat. Office 53 (November 16, 1993).

Additionally, the application file does not indicate a change of address has been filed in this case, although the address given on the petition differs from the address of record. A change of address should be filed in this case in accordance with MPEP 601.03. A courtesy copy of this decision is being mailed to the address noted on the petition. However, until otherwise instructed, all future correspondence regarding this application will be mailed solely to the address of record.

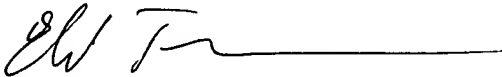
Further correspondence with respect to the instant petition under 37 CFR 1.137(b) should be addressed as follows:

By mail: Mail Stop Petition
 Commissioner for Patents
 Box 1450
 Alexandria, VA 22313

By FAX: (703) 872-9306
 Attn: Office of Petitions

By hand: Customer Service Window
 2011 South Clark Place
 Crystal Plaza Two, Lobby, Room 1B03
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Telephone inquiries should be directed to the undersigned at (571)272-3228.



Edward J. Tannouse
Petitions Attorney
Office of Petitions
United States Patent and Trademark Office

CC.
TRANSNATIONAL ENTERPRISES, INC.
78 CYPRESS STREET
MILLBURN, NJ 07041



Transnational

Intellectual Property

Bidyut K. Niyogi
President
321-729-9615

95 Bulldog Bl

Televised with Examiner Aug. 6/7.
with some minor changes. Still
in progress.
4/7/02

Applicant: EHWA Diar
Appl. No: 09/730,177
Filed: December 5
Title: Saw Blade For Cutting Steel Reinforcement

Grp./A.U.: 3723
Examiner: Alvin J. Grant

Docket No: SO-405

Invoice - B-473
\$1164
dated 4/17/2002

Honorable Commissioner for Patents
Washington, DC 20231

FILE COPY

AMENDMENT

Sir:

In response to the official action dated 02/13/2002, please amend as follows:

In the specification

Please delete lines 12 to 19 on page 5.

On page 5, line 20 delete "the" and insert "a".

On page 5, line 21 delete "fourth" and insert "further".

On page 5, line 22 delete "the same as in the" and insert "substantially same with".

On page 5, line 23 delete "third aspect except that".

On page 5, line 23 delete "are".

On page 6, line 24 delete "is composed of" and insert "a".

On page 6, line 25 delete "having" and insert "with".

On page 6, line 26 delete "and" and insert "a".

On page 7, line 19 delete "As in clear, the wings having" and insert "the wings have"

having particulate bearing layer on both side surfaces of the steel disk, in which the particulate bearing layer is made of one or more particle materials selected from the group consisting of diamond CBN, Al_2O_3 , Zr_2O_3 , ZrO_2 , WC or SiC or of their mixtures including ring portions with a fixed width and positioned in the central area on both side surfaces of the steel disk, a plurality of streamlined wings extending from the ring portions to the periphery of the steel disk, the streamlined wings are formed on both side surfaces of the steel disk so that first streamlined wings attached on one side surface of the steel disk are overlapped with second streamlined wings attached on the other side surface and cutting segments attached onto the periphery of the steel disk at predetermined intervals.

On page 7, lines 22-23 delete "This is applied in principle to all of the following embodiments as well".

On page 9, line 20 delete "showed minor" and insert "disclosed some".

In the Claims

Please cancel claims 1 to 7

Please insert new claims 8 to 19 as follows:

8. A saw blade for cutting steel-reinforced structures comprising a steel disk (10) including an opening (11) at the center for connection with a shaft of a motor-driven tool and particulate bearing layer on both side surfaces of the steel disk, in which the particulate bearing layer made of one or more particle materials selected from the group consisting of diamond, CBN, Al_2O_3 , Zr_2O_3 , ZrO_2 , WC or SiC or made from their mixture among them having ring portions with a fixed width and positioned in the central area on both side surfaces of the steel disk, and a plurality of streamlined wings extending from the ring portions to the periphery of the steel disk, the streamlined wings are formed on both side surfaces of the steel disk so that first streamlined wings attached on one side surface of the steel disk are overlapped with second streamlined wings attached on the other side surface; surface of the circular steel disk are radially overlapped in position with the wings on the other side surface of the circular steel disk and cutting segments attached onto the periphery of the steel disk with predetermined intervals.

9. The saw blade as claimed in claim 8, wherein the first streamlined wings (22) on one side surface of the circular steel disk are overlapped in a full and aligned manner with the second streamlined wings on the other side surface of the circular steel disk.

10. The saw blade as claimed in claim 9, wherein both arcs are defined as each of the streamlined wings has the same or different radius of curvature of which center is different in order to form a helical shape with respect to the opening, and the streamlined wings are so shaped as to get wider gradually in proportion to the radius of the steel disk that increases from the ring portion to the outer periphery of the circular steel disk.

11. The saw blade as claimed in claim 9, wherein the steel disk comprising a plurality of slits on its outer periphery at predetermined intervals which are

between the cutting segments.

12. The saw blade as claimed in claim 9, wherein the cutting segments are turbo-type defined as planar jig-jag profiles with respect to on both side surfaces of the cutting segments.

13. The saw blade as claimed in claim 9, wherein the portions of the streamlined wings overlapped in position on both side surfaces of the steel disk are formed with one or more through-holes.

14. The saw blade as claimed in claim 13, wherein a diameter of the plural through-holes formed on the streamlined wings of particulate bearing layers increase the ring portion to the periphery of the steel disk.

15. The saw blade as claimed in claim 8, wherein both arcs are defined as each of the streamlined wings has the same or different radius of curvature of which center is different in order to form a helical shape with respect to the opening, and the streamlined wings are so shaped as to get wider gradually according as the radius of the steel disk increases from the ring portion to the outer periphery of the circular steel disk.

16. The saw blade as claimed in claim 8, wherein the steel disk comprising a plurality of slits on its outer periphery at predetermined intervals, which are between the cutting segments.

17. The saw blade as claimed in claim 8, wherein the cutting segments are turbo-type defined as planar jig-jag profiles with respect to on both side surfaces of the cutting segments.

18. The saw blade as claimed in claim 8, wherein the portions of the streamlined wings overlapped in position on both side surfaces of the steel disk are formed with one or more through-holes.

19. The saw blade as claimed in claim 8, wherein a diameter of the plural through-holes formed on the streamlined wings of particulate bearing layers increase according as the radius of the steel disk from the ring portion to the periphery of the steel disk.

In the Abstract

Please delete the abstract and insert new and revised abstract as follows:

A saw blade for cutting steel-reinforced structures comprising a steel disk having and opening at the center for connection with a shaft of a motor-driven tool and

REMARKS/ARGUMENTS

In response to the Examiner's objections under 35 U.S.C. 112, and in keeping with the Examiner's remarks the following revisions to the text of the specification as given above have been made, specifically at page 5 (lines 12 through 16), page 6 (lines 24 and 25), page 7 (lines 10 through 22) and page 9 (lines 19 through 21). The claims have been revised to more clearly define the invention.

Claim rejections under U.S.C. 102 & 103, claims 1 to 7 on file have been cancelled and replaced by new claims 8 to 19 to more clearly distinguish the claims over the cited prior art.

In the present invention the feature of the saw blade for cutting steel-reinforced structure is to cut work material such as concrete, blocks or pipes and to easily discharge the cut chips therefrom without deforming its shape, even though it operates for a long time. As shown in Figures 1 to 4, the saw blade comprises a steel disk 10 on both sides of which particulate bearing layer 20 attached and cutting segments 12 attached onto the periphery of the steel disk at predetermined intervals. Here, the steel disk 10 further comprises an opening 11 at the center for connection with a shaft of a motor-driven tool and a plurality of slits between the cutting segments 12 at the periphery thereof.

The particulate bearing layer 20 is made of one or more particle materials selected from the group consisting of diamond, CBN, Al_2O_3 , Zr_2O_3 , ZrO_2 , WC or SiC or made of their mixtures. The shape of the particulate bearing layer 20 forms ring portions 21 with a fixed width and positioned in the central area on both side surfaces of the steel disk 10, and a plurality of streamlined wings 22 extending from the ring portions 21 to the periphery of the steel disk 10 as shown in Figure 1.

Also, the wings on both side surfaces of the disk 10 are arranged so that they are overlapped in full as shown in Figure 1 or at a half as shown in Figure 3 when the wings on both sides are projected to a plane.

In other embodiments as shown in Figures 2 and 4, the saw blade have number of through holes 22H on the particulate bearing layer 20. Here, the number

of the through hole depends on the radius of steel disk of the saw blade and the diameter of through hole 22H increases according as the area of the streamlined wings increases. The through holes are formed on the wings which are overlapped in full or at a half with regard to both side surfaces of the steel disk. This aspect of the present invention is neither disclosed or taught in the cited prior art.

The through holes formed on the steel disk give some additional effects to the saw blades. That is, the friction areas of steel disk of the saw blade are relatively reduced as much as corresponding through hole areas of the whole steel disk area so as to reduce generation of friction heat. Therefore, the saw blades have cooling effects by effectively discharging the friction heat. Also, they can reduce the vibration of the segments on the periphery of the steel disk as offsetting the vibrations between the segments and work materials.

Therefore, the saw blades according to the present invention can cut work materials without deforming their shape even though they operate for a long time.

Also, the saw blades according to the present invention can adapt a turbo-type segments on its steel disk as shown in Figure 5. Thus, the saw blade can effectively cut work materials.

It is contended that the feature of a diamond tip disk saw blade according to Ji (U.S. Patent No. 6,277,017) is to rapidly and precisely cut or grind a work material with reduced vibration and to be easily correct the deformation of the disk saw after it has been deformed and heat treated, so that it could achieve high quality work and enhance durability. For this, as shown in Figure 2, the diamond tip disk saw of Ji, comprises a metal disk 10, a shaft hole 11 of the metal disk 10, a plurality of diamond tips 12 on the periphery of the metal disk 10, a plurality of reinforcing tips 24 disposed on the radially inner part of the plurality of diamond tips 12, intermediate section 13 between the shaft hole 11 and the plurality of diamond tips 12 or the plurality of reinforcing tips 24, a plurality of corrugations 22 extending radially and forming substantially like a sinusoidal wave form on at least one side surface of the metal disk or the other side surface in the intermediate section 13, and a correction section 26 between the plurality of corrugations 22 and the plurality of diamond tips 12 in which correction section 26 does not contain any corrugations.

As shown in Figure 3, the corrugations 22 are curved and radially extended but they are apart from the diamond tips 12, the sinusoidal wave form of the corrugations 22 is formed as the corrugation shaped like a smooth convex arc 25 is

connected with each other. Therefore, the cross sectional view of the corrugations 22 shapes like a sinusoidal form all over their region on the saw disk. When the smooth convex arcs 25 are connected with each other, there are the indentation slots 35 therebetween.

These corrugations 22 may enhance the rigidity of the metal disk 10 and cause rapid air flow between the metal disk 10 so that the heat or chips generated in operation should be rapidly exhausted.

However, the other region except for that of the corrugations 22 is flat. Especially, because the correction section 26 is flat, it is easy to correct the deformation detected during the rest rotation after it is formed and heat-treatment.

Even though the Examiner indicates that all the elements of claim 1 of the present invention are in Ji Patent, Ji does not disclose the particulate bearing layers and the streamlined wings in the present invention. Also, Ji does not include the through holes and a turbo-type segments according to the present invention.

It is submitted that the Examiner indicated that the corrugations disclosed in Ji Patent is the same that as the streamlined wings of the present invention, the shape of the corrugations is quite different from the streamlined wings of the present invention. Further, the corrugations are just formed like a smooth convex arc with respect to the plane of the saw disk and never include any layers made of abrasive materials such as diamond, CBN, Al_2O_3 , Zr_2O_3 , ZrO_2 , WC or SiC or made of their mixture among them like the present invention.

It is further contended that the saw blade of the present invention does not include any indentation slots between the corrugations and reinforcing tips which functions slightly different from that of the diamond tips disclosed in Ji.

Therefore, the features of the saw blade according to the present invention are quite distinct and different from those of Ji Patent (U.S. Pat. No. 6,277,017).

The features of the method and saw blade according to Schweickhardt Patent (U.S. Pat. No. 5,115,796) is to cut concrete or masonry materials without the use of a coolant liquid. In order to achieve the object, as shown in Figures 1, 2, and 5, the saw blade 1 of Schweickhardt comprises a substrate plate 3 made of a steel, a diamond abrasive matrix rim 7 on the perimeter of the substrate plate 3 and an abrasive coating 9 coated on least one face of the substrate plate 3.

Here, the substrate plate 3 forms an arbor hole 5 to fix and arbor shaft at the center, a plurality of pin holes 6 to fix the arbor shaft and preferably a plurality of

apertures (securement holes) 19.

The abrasive coating 9 comprises a binder 11 having suitable abrasive particles 13 embedded therein and fixedly held in place by the binder, and a glass fiber reinforcing mat 15 which is impregnated with a suitable synthetic resin material 17 composed in the binder 11. The glass fiber reinforcing mat 15 greatly strengthens abrasive coating 9 and aids in holding the abrasive particles 13 in the binder 11.

When the saw blade 1 according to Schweickhardt is manufactured, the flat surface of the saw blade is entirely coated with the abrasive 9.

Accordingly, the structure of saw blade of Schweickhardt is quite different from that of the present invention.

Even though the Examiner indicated that Schweickhardt discloses the through holes corresponding to the present invention, three kinds of holes in Schweickhardt patent, the plurality of apertures 19, the plurality of pin holes 6 and the arbor hole 5, are different from those of the present invention. Of course, the arbor hole 5 of Schweickhardt corresponds to the opening 11 of the present invention. But the present invention does not disclose any pin holes correspond to the pin holes 6 of Schweickhardt. Especially, the apertures of Schwickhardt differ from the through holes 22H disclosed in the present invention.

First of all, the apertures 19 are substantially filled with abrasive coating 9 and more particularly with the binder 11 and abrasive particles 13 for at least in part mechanically interlocking coating 9 to its respective one face of substrate plate 3, which is quite different from the through holes 22H of the present invention. That is, the through holes 22H are formed on the streamlined wings $22r_1$ and $22r_2$ of the particulate bearing layers 22 and are never filled with any materials. Also, the through holes 22H give the saw blade of the present invention a cooling effect. But the apertures 19 do interlock the abrasive coating 9 on the face of the substrate plate 3.

Therefore, the features of the saw blade according to the present invention are quite different from those of Schweickhardt Patent (U.S. Pat. No. 5,115,796).

It is therefore, requested that the present claimed invention as in claims 8 to 19 be considered allowable.

Any additional fees that may be required should be deducted from our Deposit Account No. 50-1092.

Respectfully submitted

TRANSNATIONAL ENTERPRISES INC.

BY 

Bidyut K. Niyogi

Reg. No. 27017

(321) 729-9615



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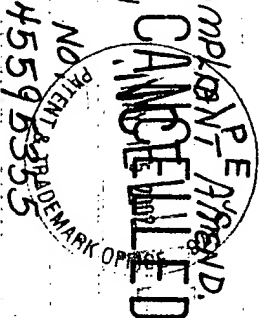
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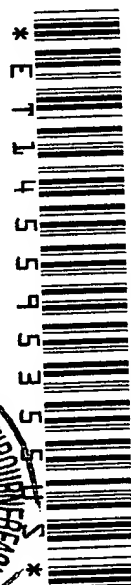
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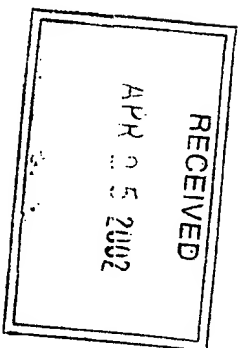
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FILING DATE: December 5, 2000

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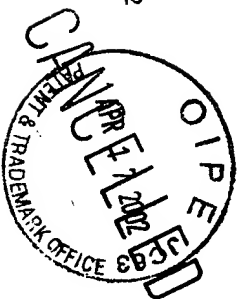
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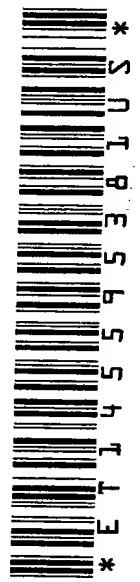
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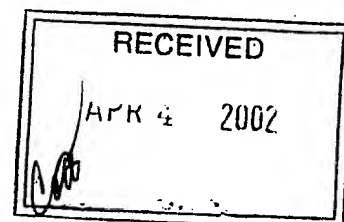
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April 4, 2002

Via Facsimile(321-729-9635)

Bidyut K. Niyogi, Esq.
Transnational Enterprises, Inc.
95 Bulldog Blvd. Suite 207
Melbourne, Florida
USA 32901



RE: U.S. Design Application No. 09/730,177
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Our Ref.: WA-267/US

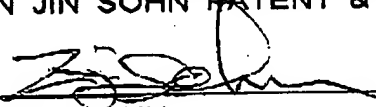
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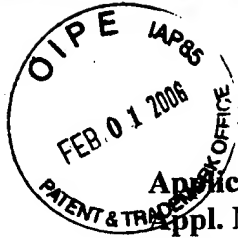
Thank you for your reminder of April 2, 2002 in connection with the above-noted application.

We now wish to inform you that our client is still reviewing the Office Action and the cited references. Accordingly, we will send you our comments and amendment, upon receipt of our client's instruction before the due date.

Thank you for your cooperation.

Very truly yours,
EUN JIN SOHN PATENT & LAW OFFICE


Eun-Jin SOHN
Patent Attorney



Applicant: EHWA Diamond Ind. Co., Ltd.
Appl. No: 09/730,177
Filed: December 5, 2000
Title: Saw Blade For Cutting Steel-Reinforced Structure

Grp./A.U.: 3723
Examiner: Alvin J. Grant

Docket No: SO-405

ET 145595355 US

Honorable Commissioner for Patents
Washington, DC 20231

AMENDMENT

Sir:

In response to the official action dated 02/13/2002, please amend as follows:

In the specification

Paragraph beginning at line 12 of page 5 line 19 has been deleted. ~~"The above object is also achieved according to the third aspect of the invention by a saw blade, wherein the shape and basic arranging principle of wings are the same as in the foregoing two, particularly first aspect, except that the corresponding wing layers are arranged in only partially overlapped manner in position in the thickness direction of the steel disk on the front and back face of the disk."~~

Paragraph beginning at line 20 of page 5 has been amended as follows: "The above subject object is also achieved according to a the further the fourth aspect of the invention by a saw blade, wherein the shape and arrangement of wings are substantially the same with as in the third aspect except that one or more holes are drilled on the overlapped portion of each pair of wings".

Paragraph beginning at line 24 of page 6 has been amended as follows: "And the particulate bearing layer is composed of a continuous ring 21 having with a fixed width and located near the center of the steel disk and . A plurality of".

disk sandwiched between adjacent wings are shaped so that their local lateral area may be increased with the radial distance from the center of the steel disk, similarly as in the case of wings.

5 The above object is also achieved according to the second aspect of the invention by a saw blade, wherein the wing layers are arranged in overlapped and fully aligned manner in position in the thickness direction of the steel disk on the front and back face of the disk just as in the first aspect except that one or more holes are drilled on each pair of wings.

15 The above object is also achieved according to a further aspect of the invention by a saw blade, wherein the shape and arrangement of wings are substantially same with one or more holes drilled on the overlapped portion of each pair of wings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the plan view of a saw blade according to the first embodiment of the present invention,

20 Figure 2 shows the plan view of a saw blade according to the second embodiment of the present invention.

Figure 3 shows the plan view of a saw blade according to the third embodiment of the present invention.

Figure 4 shows the plan view of a saw blade according to the fourth embodiment of the present invention, and

Figure 5 shows a perspective view of cutting segments mounted on a saw blade in partially cut-off manner.

DETAILED DESCRIPTION OF THE INVENTION

Some preferred embodiments of the present invention will be described in detail below with regard to the attached drawings.

As shown in Figure 1, which shows the plan view of the saw blade according to the first embodiment of the invention, the steel disk of a saw blade for use for cutting stones or construction materials is attached on its both side surface with one or more kinds of particles selected from the group consisting of diamond, CBN, Al_2O_3 , Zr_2O_3 , WC, ZrO_2 , and SiC by means of the process of electroplating or plasma spray coating.

The saw blade is provided with particulate bearing layers 20 which are attached on both sides of a circular steel disk 10. The circular steel disk 10 has an opening 11 at its center for connection with the shaft of a motor-operated tool and the circular steel disk is attached on its periphery with cutting segments 12 at predetermined intervals, with slits 13 formed between them. And the particulate bearing layer has a continuous ring 21 with a fixed with and located near the center of the steel disk. A plurality of stream-lined wings 22 disposed around the ring 21 at predetermined intervals. The wings extend from the outer edge of the ring 21 toward the periphery of the circular steel disk 10.

Here, the above-described wings 22 are formed in such a manner that the both circular arcs $22r_1$ and $22r_2$ extending substantially radially and defining each wing 22 have either the same or different radius of curvature but have the different positions of the center of curvature, with the width between the two arcs increasing with the radial distance from the center of the disk, so that the wings 22 have gradually increasing lateral local area or circumferential width as they approach the outer periphery portions of the steel disk located between adjacent wings 22 or the uncovered portions are also similarly shaped, that is, their local lateral area increases as they get far from the center of the steel disk. This first embodiment is characterized in that the wings of a particulate bearing layer on one face of the circular steel disk are correspondingly overlapped with the wings on the other face of the disk in position in a full and aligned manner.

The wings have the same shape and size and are arranged uniformly over the circumferential surface between the inner ring 21 and the outer periphery of the steel disk 10.

On the other hand, as shown in Figure 2, which shows the plan view of the saw blade according to the second embodiment of the invention, the saw blade in this embodiment is just the same as in the first embodiment except that the wings 22 of the particulate bearing layer 20 attached on both side surfaces of the steel disk in full overlapped position are formed with one or more through-holes $22H$. In Figure 2, it is seen that each wing 22 is formed with 3 through-holes $22H$ with different

the both sides, as shown in Figure 5, is preferable, because the fine cut chips or powders which emerged from the passages between the adjacent wings 22 of a particulate bearing layer 20 can be discharged smoothly by virtue of irregularities formed on the both sides of segments.

On the other hand, the following comparative test by the present applicant would demonstrate the performance of the present invention.

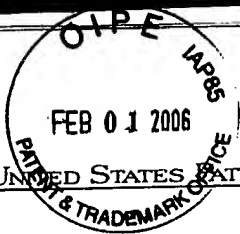
A sandwich-type saw blade consisting of circular steel disks with an intermediate copper plate, a saw blade made of an ordinary steel circular disk and a saw blade made of an ordinary steel circular disk but attached with SiC particles having the particle size of #14 on the both sides of the disk to form particulate bearing layers as in Figure 1 of the invention, all disks having the diameter of 14 inches, were subjected to the test for the deformation of disks and the cutting velocity.

As the result of tests, the sandwich-type saw blade disclosed some wobbling phenomena and the ordinary steel saw blade showed intense wobbling phenomena.

On the other hand, the saw blade with SiC particulate bearing layers according to the invention showed no deformation on the steel disk and moreover the increase in cutting velocity by about 20% over the others.

The particulate bearing layers attached on both surfaces of the steel disk according to the first embodiment of the invention include wing sections in helical form at fixed intervals along the circumference of the disk to be suited to the direction of rotation, which wing sections are positioned

in full overlapped relation on both surfaces of the steel disk.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/730,177	12/05/2000	Chang Hyun Lee	SO-405	8039

7590

04/25/2002

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EXAMINER

GRANT, ALVIN J

ART UNIT

PAPER NUMBER

3723

DATE MAILED: 04/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.



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Paper No. 7

Notice of Non-Compliant Amendment (37 CFR 1.121)

The amendment filed on 4-17-02 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121, as amended on September 8, 2000 (see 65 Fed. Reg. 54603, Sept. 8, 2000, and 1238 O.G. 77, Sept. 19, 2000). In order for the amendment to be compliant, applicant must supply the following omissions or corrections in response to this notice.

THE FOLLOWING ITEMS ARE REQUIRED FOR COMPLIANCE WITH RULE 1.121 (APPLICANT NEED NOT RE-SUBMIT THE ENTIRE AMENDMENT):

- ☒ 1. A clean version of the replacement paragraph(s)/section(s) is required. See 37 CFR 1.121(b)(1)(ii).
- ☒ 2. A marked-up version of the replacement paragraph(s)/section(s) is required. See 37 CFR 1.121(b)(1)(iii).
- G 3. A clean version of the amended claim(s) is required. See 37 CFR 1.121(c)(1)(i).
- G 4. A marked-up version of the amended claim(s) is required. See 37 CFR 1.121(c)(1)(ii).

Explanation: _____

(LIE: Please provide specific details for correction to assist the applicant. For example, A the clean version of claim 6 is missing. @)

For further explanation of the amendment format required by 37 CFR 1.121, see MPEP ' 714 and the USPTO website at <http://www.uspto.gov/web/offices/dcom/olia/pbg/sampleaf.pdf>. A condensed version of a sample amendment format is attached.

G **PRELIMINARY AMENDMENT:** Unless applicant **supplies the omission or correction** to the preliminary amendment in compliance with revised 37 CFR 1.121 noted above within ONE MONTH of the mail date of this letter, examination on the merits may commence without entry of the originally proposed preliminary amendment. This notice is not an action under 35 U.S.C. 132, and this ONE MONTH time limit is not extendable.

☒ **AMENDMENT AFTER NON-FINAL ACTION:** Since the above-mentioned reply appears to be *bona fide*, applicant is given a TIME PERIOD of ONE MONTH or THIRTY DAYS from the mailing of this notice, whichever is longer, within which to **supply the omission or correction noted above** in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Sha Shan-Moreno
Legal Instruments Examiner (LIE)

ATTACHMENT:



SAMPLE AMENDMENT FORMAT

Conventional Heading Information
for Amendment Supplied Here (Applicant, Appl. No., etc)

AMENDMENT

Sir:

In response to the Office action of October 10, 2000, please amend the above-identified application as follows:

In the Specification:

Please replace the paragraph beginning at page 5, line 15, with the following rewritten paragraph:

-- In this construction the electric heating elements are positioned directly beneath the iron grid bars and melted fat is carried off in grooves formed in the upper surfaces of the bars. --

In the claims:

Please cancel claim 6.

Please amend claim 7 as follows:

7. (Amended) A griller as claimed in claim 1 wherein the power consumption of the heater element is 1250 watts and the weight of the grill member is about 3.5 kg.

(Page Break)

REMARKS/ARGUMENTS

Claims 1-5 and 7-10 remain in this application. Claim 6 has been canceled. Claim 7 has been amended.

Claims.....

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

SIGNATURE _____

(Page Break)

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

Paragraph beginning at line 15 of page 5 has been amended as follows:

In this construction the electric heating elements are positioned directly beneath the iron grid bars and melted fat is carried off in grooves formed in the upper surfaces of the bars.

In the claims:

Claim 6 has been canceled.

Claim 7 has been amended as follows:

7. (Amended) A griller as claimed in claim 1 wherein the power consumption of the heater element is 1250 ~~1600~~ watts and the weight of the grill member is about 3.5 kg.

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